

Title (en)
PBCH DESIGN FOR NARROWBAND INTERNET-OF-THINGS (NB-IOT)

Title (de)
PBCH-ENTWURF FÜR SCHMALBANDIGES INTERNET DER DINGE (NB-IOT)

Title (fr)
CONCEPTION DE PBCH POUR UN INTERNET DES OBJETS À BANDE ÉTROITE (NB-IOT)

Publication
EP 3411987 A4 20200108 (EN)

Application
EP 16889632 A 20160922

Priority
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• US 2016053127 W 20160922

Abstract (en)
[origin: WO2017136000A1] Disclosed herein is an apparatus of a user equipment (UE) configured to communicate with an evolved Node B (eNB). The UE may include memory and processing circuitry coupled to the memory. The processing circuitry may be configured to detect a plurality of code blocks received on a Narrowband Physical Broadcast Channel (NB-PBCH) during a Master Information Block transmission time interval (MIB TTI). The processing circuitry may be further configured to partition a code block of the plurality of code blocks into a plurality of subframes. Each of the plurality of subframes includes a bit sequence representing an encoded Narrowband Master Information Block (NB-MIB), and the bit sequence is repeated a number of times within the code block. The bit sequence can be decoded to obtain the NB-MIB.

IPC 8 full level
H04L 1/00 (2006.01); **H04L 5/00** (2006.01); **H04L 27/26** (2006.01); **H04L 1/08** (2006.01)

CPC (source: EP)
H04L 1/0041 (2013.01); **H04L 1/0045** (2013.01); **H04L 5/0053** (2013.01); **H04L 5/0064** (2013.01); **H04L 27/26** (2013.01); **H04L 1/0067** (2013.01); **H04L 1/0071** (2013.01); **H04L 1/08** (2013.01)

Citation (search report)
• [X1] INTEL CORPORATION: "NB-IoT Broadcast Channel Design", vol. RAN WG1, no. Budapest, HU; 20160118 - 20160120, 17 January 2016 (2016-01-17), XP051053445, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN1/Docs/> [retrieved on 20160117]
• [X1] HUAWEI ET AL: "NB-PBCH design", vol. RAN WG1, no. Budapest, HU; 20160118 - 20160120, 17 January 2016 (2016-01-17), XP051053346, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN1/Docs/> [retrieved on 20160117]
• [X1] ZTE: "NB-PBCH design for NB-IoT", vol. RAN WG1, no. Budapest, HU; 20160118 - 20160120, 17 January 2016 (2016-01-17), XP051053365, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN1/Docs/> [retrieved on 20160117]
• [A] ZTE: "Multiplexing of downlink channels for NB-IOT", vol. RAN WG1, no. Budapest, HU; 20160118 - 20160120, 17 January 2016 (2016-01-17), XP051053368, Retrieved from the Internet <URL:http://www.3gpp.org/ftp/Meetings_3GPP_SYNC/RAN1/Docs/> [retrieved on 20160117]
• See references of WO 2017136000A1

Designated contracting state (EPC)
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